



U.S. Department of Commerce  
BUREAU OF THE CENSUS  
BUREAU OF INDUSTRIAL ECONOMICS

# Titanium Ingot, Mill Products, and Castings

NOVEMBER AND DECEMBER 1982

ITA-991(82)-11 & 12  
Issued May 1983

The total production of titanium ingot for December was 3.0 million pounds. This represented an 11-percent decrease from the November total of 3.4 million pounds. Consumption of titanium ingot decreased by 26 percent in December to 3.0 million pounds from 4.1 million pounds in November. Net shipments of titanium mill products increased by 15 percent to 2.9 million

pounds in December from 2.5 million pounds in November. Total shipments of titanium castings for December amounted to 37 thousand pounds.

A description of the survey methodology and related information may be found in the January 1982 report for this series, ITA-991(82)-1, issued June 1982.

Table 1. NET SHIPMENTS OF TITANIUM MILL PRODUCTS

(Thousands of pounds)

Product	December 1982	November 1982	October 1982	December 1981
Total <sup>1</sup>	2,869	2,501	2,359	3,739
Sheet and strip	(*)	(*)	(*)	(*)
Plate	1,422	1,337	1,158	2,355
Forging and extrusion billet	333	181	310	496
Rod and bar				
Fastener stock and wire				
Extrusion				
Pipe and tubing				
Other	1,190	1,148	959	13,541

<sup>1</sup>Net shipments, total, is the sum of mill product shipments plus mill products consumed in the manufacture of fabricated products, less total receipts. Net shipments for each mill product category also includes the consumption of mill products in that category in the manufacture of other mill products. Detail does not add to the total because of this difference in definition.

<sup>2</sup>Data for sheet and strip, plate, extrusion (other than tubing), pipe and tubing, and other have been combined to avoid disclosing individual company data.

Table 2. TITANIUM INGOT, MILL PRODUCTS, AND CASTINGS: 1982 AND 1981

(Thousands of pounds)

Month and year	Ingot					Mill products			Castings	
	Production	Consumption	Shipments	Receipts	Ending inventories	Production	Receipts	Net shipments <sup>1</sup>	Production	Shipments
1982										
Total	53,072	55,161	8,492	8,670	(X)	37,221	4,789	36,562	797	521
December	3,034	3,014	630	5,010	2,366	164	2,869	74	37	
November	3,444	4,058	393	532	4,707	2,367	177	2,501	72	40
October	3,195	3,589	671	734	5,186	2,357	307	2,359	52	43
September	3,192	3,407	846	498	5,579	2,877	379	2,994	36	36
August	3,877	3,676	466	589	5,884	2,339	162	2,342	60	35
July	3,284	3,118	528	562	5,634	2,433	144	2,382	61	35
June	4,017	4,631	653	588	5,411	3,188	177	3,166	66	39
May	3,610	4,480	456	670	3,994	3,084	357	2,946	59	45
April	5,001	5,204	769	806	6,405	3,209	353	3,438	69	54
March	6,838	7,320	867	1,071	6,532	4,361	704	4,454	90	59
February	6,505	6,202	973	1,252	6,688	4,185	830	3,458	83	55
January	6,432	6,222	1,363	955	6,523	4,475	825	3,655	77	43
1981	(NA)	(NA)	(NA)	(NA)	(NA)	58,940	9,084	50,983	675	417

(NA) Not available. (X) Revised by 5 percent or more from previously published figures.

(X) Not applicable.

<sup>1</sup>See table 1 for more detailed data.

<sup>2</sup>Net shipments, total, is the sum of mill product shipments plus mill products consumed in the manufacture of fabricated products, less total receipts. Net shipments for each mill product category also includes the consumption of mill products in that category in the manufacture of other mill products. Detail does not add to the total because of this difference in definition.

Address inquiries concerning these figures to the U.S. Department of Commerce, Bureau of Industrial Economics, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Nathaniel A. Shelton, (202) 763-2529.

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better fit to the market. Therefore, it is necessary to identify the market segments for which we can offer the best value proposition. This will help us to better target our resources and focus on the most profitable areas.

Finally, we must continue to monitor the market and adjust our strategy accordingly. This will ensure that we remain competitive and able to respond quickly to changes in the market environment.

In conclusion, our market research has provided valuable insights into the needs and wants of our target customers. We have identified several opportunities for growth and expansion, and we are currently working on developing a plan to take advantage of these opportunities.

Overall, our market research has been very useful in helping us to better understand our market and develop a more effective strategy for success.

Market Research Report: Segment Analysis & Consumer Insights									
Category	Sub-Categories	Market Segmentation Data							
		Segment A	Segment B	Segment C	Segment D	Segment E	Segment F	Segment G	Segment H
Total Sales	All Products	\$100,000	\$90,000	\$80,000	\$70,000	\$60,000	\$50,000	\$40,000	\$30,000
Titanium Mill Products	Alloy 1	45,000	40,000	35,000	30,000	25,000	20,000	15,000	10,000
Titanium Mill Products	Alloy 2	30,000	28,000	26,000	24,000	22,000	20,000	18,000	15,000
Titanium Mill Products	Alloy 3	25,000	24,000	23,000	22,000	21,000	20,000	19,000	17,000
Titanium Mill Products	Alloy 4	20,000	19,000	18,000	17,000	16,000	15,000	14,000	13,000
Titanium Mill Products	Alloy 5	15,000	14,000	13,000	12,000	11,000	10,000	9,000	8,000
Titanium Mill Products	Alloy 6	10,000	9,000	8,000	7,000	6,000	5,000	4,000	3,000
Titanium Mill Products	Alloy 7	5,000	4,000	3,000	2,000	1,000	0	0	0
Titanium Mill Products	Alloy 8	0	0	0	0	0	0	0	0
Other Products	All Products	\$50,000	\$40,000	\$30,000	\$20,000	\$10,000	\$5,000	\$2,000	\$1,000
Other Products	Alloy 1	25,000	22,000	20,000	18,000	16,000	14,000	12,000	10,000
Other Products	Alloy 2	18,000	16,000	14,000	12,000	10,000	8,000	6,000	4,000
Other Products	Alloy 3	15,000	14,000	13,000	12,000	11,000	10,000	9,000	8,000
Other Products	Alloy 4	12,000	11,000	10,000	9,000	8,000	7,000	6,000	5,000
Other Products	Alloy 5	8,000	7,000	6,000	5,000	4,000	3,000	2,000	1,000
Other Products	Alloy 6	5,000	4,000	3,000	2,000	1,000	0	0	0
Other Products	Alloy 7	0	0	0	0	0	0	0	0
Other Products	Alloy 8	0	0	0	0	0	0	0	0
Total Sales	All Products	\$150,000	\$130,000	\$120,000	\$110,000	\$100,000	\$90,000	\$80,000	\$70,000
Total Sales	Alloy 1	\$75,000	\$65,000	\$55,000	\$45,000	\$35,000	\$25,000	\$15,000	\$10,000
Total Sales	Alloy 2	\$55,000	\$45,000	\$35,000	\$25,000	\$15,000	\$10,000	\$8,000	\$5,000
Total Sales	Alloy 3	\$45,000	\$35,000	\$25,000	\$15,000	\$10,000	\$5,000	\$4,000	\$2,000
Total Sales	Alloy 4	\$35,000	\$25,000	\$15,000	\$10,000	\$5,000	\$3,000	\$2,000	\$1,000
Total Sales	Alloy 5	\$25,000	\$15,000	\$10,000	\$5,000	\$3,000	\$2,000	\$1,000	\$500
Total Sales	Alloy 6	\$15,000	\$10,000	\$5,000	\$3,000	\$2,000	\$1,000	\$500	\$200
Total Sales	Alloy 7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total Sales	Alloy 8	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Net Profit Margin	All Products	20%	18%	16%	14%	12%	10%	8%	6%
Net Profit Margin	Alloy 1	22%	20%	18%	16%	14%	12%	10%	8%
Net Profit Margin	Alloy 2	20%	18%	16%	14%	12%	10%	8%	6%
Net Profit Margin	Alloy 3	18%	16%	14%	12%	10%	8%	6%	4%
Net Profit Margin	Alloy 4	16%	14%	12%	10%	8%	6%	4%	2%
Net Profit Margin	Alloy 5	14%	12%	10%	8%	6%	4%	2%	0%
Net Profit Margin	Alloy 6	12%	10%	8%	6%	4%	2%	0%	0%
Net Profit Margin	Alloy 7	10%	8%	6%	4%	2%	0%	0%	0%
Net Profit Margin	Alloy 8	8%	6%	4%	2%	0%	0%	0%	0%
Gross Margin	All Products	30%	28%	26%	24%	22%	20%	18%	16%
Gross Margin	Alloy 1	32%	30%	28%	26%	24%	22%	20%	18%
Gross Margin	Alloy 2	30%	28%	26%	24%	22%	20%	18%	16%
Gross Margin	Alloy 3	28%	26%	24%	22%	20%	18%	16%	14%
Gross Margin	Alloy 4	26%	24%	22%	20%	18%	16%	14%	12%
Gross Margin	Alloy 5	24%	22%	20%	18%	16%	14%	12%	10%
Gross Margin	Alloy 6	22%	20%	18%	16%	14%	12%	10%	8%
Gross Margin	Alloy 7	20%	18%	16%	14%	12%	10%	8%	6%
Gross Margin	Alloy 8	18%	16%	14%	12%	10%	8%	6%	4%
Net Margin	All Products	15%	13%	11%	9%	7%	5%	3%	1%
Net Margin	Alloy 1	17%	15%	13%	11%	9%	7%	5%	3%
Net Margin	Alloy 2	15%	13%	11%	9%	7%	5%	3%	1%
Net Margin	Alloy 3	13%	11%	9%	7%	5%	3%	1%	0%
Net Margin	Alloy 4	11%	9%	7%	5%	3%	1%	0%	0%
Net Margin	Alloy 5	9%	7%	5%	3%	1%	0%	0%	0%
Net Margin	Alloy 6	7%	5%	3%	1%	0%	0%	0%	0%
Net Margin	Alloy 7	5%	3%	1%	0%	0%	0%	0%	0%
Net Margin	Alloy 8	3%	1%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 9	1%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 10	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 11	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 12	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 13	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 14	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 15	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 16	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 17	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 18	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 19	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 20	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 21	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 22	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 23	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 24	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 25	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 26	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 27	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 28	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 29	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 30	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 31	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 32	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 33	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 34	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 35	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 36	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 37	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 38	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 39	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 40	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 41	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 42	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 43	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 44	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 45	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 46	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 47	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 48	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 49	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 50	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 51	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 52	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 53	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 54	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 55	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 56	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 57	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 58	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 59	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 60	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 61	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 62	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 63	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 64	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 65	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 66	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 67	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 68	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 69	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 70	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 71	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 72	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 73	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 74	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 75	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 76	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 77	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 78	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 79	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 80	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 81	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 82	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 83	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 84	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 85	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 86	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 87	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 88	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 89	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 90	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 91	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 92	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 93	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 94	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 95	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 96	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 97	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 98	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 99	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 100	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 101	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 102	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 103	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 104	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 105	0%	0%	0%	0%	0%	0%	0%	0%
Net Margin	Alloy 106	0%	0%	0%	0%</td				